

Title (en)  
Self-energising disc brakes.

Title (de)  
Selbstverstärkende Scheibenbremsen.

Title (fr)  
Freins à disque à autoserrage.

Publication  
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Application  
**EP 89309789 A 19890926**

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Abstract (en)  
A compound disc brake comprises a pair of pressure plates (7, 9) with a ball and ramp camming mechanism, one of the plates comprises a driven plate (7) keyed to a rotating axle shaft (5) to be braked, and the other plate comprises an input plate (9) carried from the driven plate by the camming mechanism. The input plate 9 is of larger diameter than the driven plate with its radially outer region comprising torque-transmitting mechanism (16) which transmits torque applied to that region by primary braking means (6), which can be a spot brake, to the central region of the input plate (9). Retardation of the input plate by the primary braking means causes the pressure plates to separate axially and move into engagement with relatively stationary braking surfaces (2, 3) in brake housing 1 whereafter servo braking occurs. Various multi-plate embodiments are disclosed, including embodiments in which the torque-transmitting mechanism (16) is a separate annular disc (31, 60, 73) keyed to the outer peripheral edge (15) of the servo plate. Other modifications of the pressure plates are also disclosed.

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IPC 8 full level  
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